

## **AMENDMENTS TO THE CLAIMS**

Please amend the claims as follows:

13. (currently amended) A computer system for inputting, storing, organizing, retrieving, and authenticating, medical records, clinical data, and patient data, the system comprising:

means for converting medical records, clinical data, and patient data to digital records,

means for assigning a patient identifier to each said digital record,

means for integrating a first digital physician signature into each said digital record,

a physician signature database having a plurality of physician names and corresponding second digital physician signatures stored therein,

memory for storing said digital records therein,

means for storing and retrieving said digital records in said memory and retrieving said digital records from said memory,

means for authenticating a digital record including means for comparing said first digital physician signature integrated in said digital record to said second digital physician signature retrieved from the physician signature database, and

means for outputting said retrieved digital records.

~~A computer system for inputting, storing, organizing and retrieving patient/user medical records, clinical tests, and personal identification data, primarily for use in emergency medical situations, comprising:—~~

- ~~a. providing medical records, clinical tests and other personal information and identification information of a patient/user;~~
- ~~b. converting the medical records, clinical tests and other personal information to a digital record for storage in a data storage device;~~
- ~~c. assigning a unique alpha numerical patient identifier code to the patient records and information~~
- ~~d. providing a means for updating said patient/user medical information on a routine basis as their medical condition, prescriptions and clinical tests change~~
- ~~e. providing a means of retrieving the medical records and data based on the users unique alpha numerical identifier code~~

14 (currently amended) The computer system of claim 413 wherein, simultaneously with digitizing the medical records and user ID information, a ~~unique digital alpha numerical~~ water mark is embedded into the document—said record to verify its authenticity.

15 (currently amended) The computer system of claim 13 wherein simultaneous with converting said medical records a first digital physician signature is assigned and embedded into said medical records.

16 (currently amended) The computer system of claim 4 13 wherein a priority code is assigned to the said digital records based on the clinical significance of the record, severity of condition and relevance to providing medical treatment to the user/patient.

17 (currently amended) The computer system of claim 4 13 wherein ~~the~~ said digital records, with said assigned unique patient identifier, and said unique first digital physician signature, ~~and priority code~~, are stored in a ~~data storage device~~ system database.

18 (currently amended) The computer system of claim 4 13 wherein a request may be entered to retrieve ~~patient~~ said medical records and other system information using ~~the unique alpha numerical~~ said patient identifier or other records identification means.

19 (currently amended) The computer system of claim 4 13 wherein a request may be entered to retrieve ~~patient~~ said medical records and other system information using ~~the~~ said digital physician signature ~~identifier~~ or other records identification means.

20 (currently amended) The computer system of claim 4 13 wherein ~~patient~~ said medical records and other information may be retrieved if ~~the unique alpha numerical~~ said patient identifier entered with the retrieval request matches a stored database of reference patient identifiers.

21 (currently amended) The computer system of claim 4 13 wherein ~~patient~~ said medical records and other information may be retrieved if ~~the~~ said digital physician signature entered with the retrieval request matches a said stored database of second digital physician signatures.

22 (currently amended) The computer system of claim 16 wherein said priority code is assigned according to a weighted average means or other calculated means, based on the severity of the medical condition, and its clinical relevance in treating the said patient, ~~during a medical emergency, or for other routine medical treatments.~~

23 (currently amended) The computer system of claim 4 13 wherein the patient/user said medical records are data ~~is condensed and~~ organized in data fields in digital page format.

24 (currently amended) The computer system of claim 4 13 wherein the patient/user said medical records is are organized in data fields based on the clinical relevance and/or utility of the data in treating a patient in a medical emergency, or other medical scenario.

25 (currently amended) The computer system of claim 4 13 wherein said unique patient identifier is ~~provided~~ used for security and identification and said digital records are retrieved using 24 hour a day intranet or internet access, (website viewing, download or other means, ~~) during a medical emergency or other medical scenario to provide clinically accurate and timely medical treatment to said patient/user.~~

26 (currently amended) The computer system of claim 4 13 wherein said unique patient identifier is ~~provided~~ used for security and identification and said digital records and other personal information are accessed and updated using 24 hour a day intranet or internet access, (website viewing, download or other means).

27 (currently amended) The computer system of claim 4 13 wherein said digital physician signature is provided for security and identification and said digital records and other personal information are accessed and updated using 24 hour a day intranet or internet access, (website viewing, download or other means).

28 (currently amended) The computer system of claim 4 13 wherein said unique patient identifier and/or ~~unique~~ digital physician signature are provided and said medical data is records are retrieved using 24 hour a day e-mail access, ~~for timely access to the medical data in a medical emergency or other medical scenario, or for routine updating of said patient records.~~

29 (currently amended) The computer system of claim 4 13 wherein said unique patient identifier is provided and said medical data and information is rapidly retrieved using 24 hour a day telephone voice access, ~~for emergency and/or routine patient treatment and reference.~~

30 (currently amended) The computer system of claim 4 13 wherein said digital physician signature is provided and said medical data is rapidly retrieved using 24 hour a day telephone voice access, ~~for emergency and/or routine patient treatment and reference.~~

31 (currently amended) The computer system of claim 4 13 wherein the user/patient said medical data is encrypted for securing and confidentiality.

~~32 (canceled) The computer system of claim 15 wherein the unique alpha numerical physician signatures are stored in a digital library, and said physician signatures are compared to new and existing patient records to verify their originality and medical integrity.~~

33 (currently amended) The computer system of claim 4 13 wherein the patient/user said medical records and prescriptions can be updated and changed as a patient's condition changes, via the Internet or Intranet, using the unique patient identifier or other means, ~~for security access and confidentiality,~~ continuously and 24 hours a day.

34 (currently amended) The computer system of claim 4 13 wherein said patient medical records and data can be rapidly electronically mailed to remote locations, via wireless, optical or other ~~appropriate electronic means, for timely treatment of patient in a medical emergency or for routine medical treatment,~~ continuously and 24 hours a day.

35 (currently amended) The computer system of claim 4 13 wherein a ~~unique~~ telephone exchange system and a plurality of computer workstations allow for a plurality of different patient records to be simultaneously transmitted and received by the said system, continuously and 24 hours a day.

36 (currently amended) The computer system of claim 4 13 wherein the ~~original~~ said patient records are converted to digital format by a unique optical scanner which simultaneously embeds ~~(digital watermark)~~ said unique first digital physician signature and/or ~~unique~~ said patient identifier into said patient record as a digital watermark to authenticate said record. ~~verify document originality and for security purposes.~~

37 (currently amended) The computer system of claim 4 13 wherein the said digital patient records can be accessed from a remote location and printed in hard copy format via any appropriate black and white or color printing means, or the other output means, where ~~in~~ the medical diagnostic quality and medical integrity of the records is maintained, ~~for emergency medical treatment or other medical purposes.~~

38 (currently amended) The computer system of claim 4 13 wherein said records can be accessed remotely via the internet, telephone voice system, e-mail or other means, by assigning a unique security PIN number, or other appropriate security means, to the user.

39 (currently amended) The computer system of claim 4 13 wherein a unique signal router/controller allows for a plurality of patient records to be simultaneously transmitted and received without data corruption or crosstalk, ~~security checked with said physician signature and/or said patient identifier, to~~

service a plurality of records and data requests. ~~a plurality of medical emergencies or other medical scenarios in a secure and confidential manner.~~

40 (currently amended) The computer system of claim 4 13 wherein a plurality of data inputs from remote locations, including said unique optical scanners and/or existing digital databases, can transmit and receive secure patient medical records and data to and from said system, ~~for access in a medical emergency and for other medical scenarios.~~

41 (currently amended) The computer system of claim 4 13 having a plurality of appropriate remote and local computer workstations to input, transmit and receive said patient records and data 24 hours a day, ~~to service medical emergencies and other medical scenarios.~~

42 (currently amended) The computer system of claim 4 13 wherein the patient said medical records and data are accessed through a telephone exchange via the unique said patient identifier, or said physician signature, or other appropriate security means, ~~on a 24 hour basis, for servicing medical emergencies and other medical scenarios.~~

43 (currently amended) The computer system of claim 4 13 wherein the said patient can wear or carry a medical card, medical jewelry or other appropriate device which ~~designates~~ indicates that the person said patient has a medical condition and that their medical records are accessible from said system on a continuous basis using appropriate communication and retrieval means. ~~using a 24 hour telephone communications system.~~

44 (currently amended) The computer system of claim 43 wherein the ~~unique~~ alpha-numerical said patient identifier is used ~~over the telephone~~ in conjunction

with said communication means to identify the said patient/ or user and their said medical records

45 (currently amended) The computer system of claim 4\_13 wherein ~~the said~~ patient can wear or carry a medical card, medical jewelry or other appropriate device which ~~designates~~ indicates that ~~the person~~ said patient has a medical condition, and that their medical records are accessible using ~~their unique said patient identifier number~~ and in conjunction with the Internet, or website access.

46 (currently amended) The computer system of claim 4\_13 wherein ~~the said~~ patient can wear or carry a medical card, medical jewelry or other appropriate device which ~~designates~~ indicates that ~~the person~~ said patient has a medical condition, and that their medical records are accessible using ~~their unique said patient identifier number~~ and in conjunction with the Internet for routine updating of said medical records and other information.

47 (currently amended) A process, ~~including appropriate software routines,~~ for inputting, storing, organizing, and retrieving and authenticating patient/user medical records, clinical tests data, and personal data ~~identification data,~~ primarily ~~for use in emergency medical situations,~~ the process comprising the steps of:

converting a medical record into digital record;

assigning a patient identifier to said digital record;

integrating a first digital physician signature into said digital record;

storing a library of physician signatures including a plurality of physician names and corresponding second digital physician signatures;

authenticating said digital record by comparing said first physician signature to a corresponding one of said second physician signatures;



retrieving said stored digital records for a patient

outputting said retrieved digital records

- ~~—— a. providing medical records, clinical tests and other personal information and~~  
~~—— identification of a patient/user;~~
- ~~—— b. converting said medical record and other personal information to a digital~~  
~~record for storage in a data storage device;~~
- ~~c. assigning a unique alpha numerical patient identifier code to the medical~~  
~~records and other personal information~~
- ~~—— d. providing a means for updating said patient/user medical information on a~~  
~~routine basis as their medical condition, prescriptions and clinical tests change.~~
- ~~—— e. providing a means for retrieving the medical records and personal data based~~  
~~on the users unique alpha numerical identifier code.~~

48 (currently amended) The process of claim 47 wherein, simultaneously with digitizing the converting said medical records and user ID information, a unique digital alpha numerical water mark is embedded into the document said record to verify its authenticity.

49 (currently amended) The process of claim 47 wherein, simultaneously with digitizing the converting said medical records and user ID information, a unique alpha numerical said first digital physician signature is assigned and embedded into said record the document.

50 (currently amended) The process of claim 47 wherein a priority code is assigned to the digital said medical records based on the clinical significance of the record, severity of condition, and relevance to providing medical treatment to said patient the user/patient

51 (currently amended) The process of claim 47 wherein ~~the digital~~ said medical records and other user information, ~~and unique alpha-numerical identifier,~~ are stored in a ~~sata~~ data storage device.

52 (currently amended) The process of claim 47 wherein a request may be entered to retrieve ~~patient~~ said medical records and other information using the ~~unique alpha-numerical~~ said patient identifier or other records identification means.

53 (currently amended) The process of claim 47 wherein a request may be entered to retrieve ~~patient~~ said medical records and other information using the said first digital physician signature ~~identifier~~ or other records identification means.

54 (currently amended) The process of claim 47 wherein ~~patient~~ said medical records and other information may be retrieved if ~~the unique alpha-numerical~~ said patient identifier entered with the retrieval request matches a stored database of reference patient identifiers.

~~55 (canceled) The process of claim 47 wherein patient medical records and other information may be retrieved if the digital physician signature entered with the retrieval request matches a stored database of digital physician signatures~~

56 (currently amended) The process of claim 50 wherein said priority code is assigned according to a weighted average means or other calculated means, based on the severity of the medical condition, and its clinical relevance in treating the said patient, ~~/user during a medical emergency, or for other routine medical treatments.~~

57 (currently amended) The process of claim 47 wherein ~~the patient/user~~ said medical records are ~~data is condensed and~~ organized in data fields in digital page format .

58 (currently amended) The process of claim 47 wherein ~~the patient/user~~ said medical records are ~~data is condensed and~~ organized in data fields based on the clinical relevance and/or utility of ~~the data~~ said records in treating a patient in a medical emergency, or other medical scenario.

59 (currently amended) The process of claim 47 wherein said ~~unique~~ patient identifier is provided for security and identification and said digital records are rapidly retrieved using 24 hour a day intranet or internet access, ~~(website viewing, download or other means.)~~ during a medical emergency or other medical scenario to provide clinically accurate and timely medical treatment to said patient/user.

60 (currently amended) The process of claim 47 wherein said ~~unique~~ patient identifier is provided for security and identification and said digital records and other personal information are accessed and updated using 24 hour a day intranet or internet access, ~~(website viewing, download or other means).~~

61 (currently amended) The process of claim 47 wherein said first digital physician signature is provided for security and identification and said digital records and other personal information are accessed and updated using 24 hour a day intranet or internet access, ~~(website viewing, download or other means).~~

62 (currently amended) The process of claim 47 wherein said ~~unique~~ patient identifier and/or ~~unique~~ frist digital physician signature are provided and said medical data is retrieved using 24 hour a day e-mail access, ~~for rapid access to the medical data in a medical emergency or other medical scenario, or for routine updating of said patient records.~~

63 (currently amended) The process of claim 47 wherein said ~~unique~~ patient identifier is provided and said medical data is rapidly retrieved using 24 hour a day telephone voice access, ~~for emergency and/or routine patient treatment and reference.~~

64 (currently amended) The process of claim 47 wherein said first digital physician signature is provided and said medical data is rapidly retrieved using 24 hour a day telephone voice access, ~~for emergency and/or routine patient treatment and reference~~

65 (currently amended) The process of claim 47 wherein ~~the user/patient~~ said medical records are ~~data is~~ encrypted for securing and confidentiality.

~~66 (canceled) The process of claim 49 wherein the unique alpha numerical physician signatures are stored in a digital library, and said physician signatures are compared to new and existing patient records to verify their originality and medical integrity.~~

67 (currently amended) The process of claim 47 wherein ~~the patient/user~~ said medical records ~~and prescriptions~~ can be updated and changed as a patient's condition changes via the Internet or Intranet, using the unique patient identifier or other means, for security access and confidentiality, continuously and 24 hours a day.

68 (currently amended) The process of claim 47 wherein said ~~patient~~ medical records and data can be rapidly electronically mailed to remote locations, via wireless, optical or other appropriate electronic means for timely treatment of patient in a medical emergency or for routine medical treatment, ~~continuously~~ and 24 hours a day.

69 (currently amended) The process of claim 47 wherein a ~~unique~~ telephone exchange system and a plurality of computer workstations allow for a plurality of different patient records to be simultaneously transmitted and received by the system continuously and 24 hours a day.

70 (currently amended) The process of claim 47 wherein ~~the original patient~~ said medical records are converted to digital format by ~~an unique~~ optical scanner which simultaneously embeds ~~(digital watermark)~~ said unique first digital physician signature and/or ~~unique~~ patient identifier into said patient record to verify the authenticity of said record. ~~document originality and for security purposes.~~

71 (currently amended) The process of claim 47 wherein ~~the patient~~ said medical records can be accessed from a remote location and printed in hard copy format via any appropriate black and white or color printing means, or other output means, where-in the medical diagnostic quality and medical integrity of the records is maintained, ~~for emergency medical treatment or other medical purposes.~~

72 (currently amended) The process of claim 47 wherein said medical records can be accessed ~~in a~~ remotely via the internet, telephone voice system, e-mail or other means, by assigning a unique security PIN number, or other appropriate security means, to the user.

73 (currently amended) The process of claim 47 wherein a ~~unique~~ signal router/controller allows for a plurality of patient records to be simultaneously transmitted and received without data corruption or crosstalk, ~~security checked with said physician signature and/or said patient identifier, to service a plurality~~

~~of medical emergencies or other medical scenarios in a secure and confidential manner.~~

74 (currently amended) The process of claim 47 wherein a plurality of data inputs from remote locations, including said unique optical scanners and/or existing digital databases, can transmit and receive secure patient medical records to and from said system., ~~for access in a medical emergency and for other medical scenarios.~~

75 (currently amended) The process of claim 47 ~~having appropriate~~ which uses a plurality of remote and local computer workstations to input, transmit and receive said a plurality of patient records and data, 24 hours a day, ~~to service medical emergencies and other medical scenarios.~~

76 (currently amended) The process of claim 47 wherein the patient said medical records and data are accessed through the ~~unique~~ a telephone exchange ~~via the unique~~ using said patient identifier, or said first digital physician signature, or other appropriate security means, on a 24 hour basis, ~~for servicing medical emergencies and other medical scenarios.~~

77 (currently amended) The process of claim 47 wherein the ~~said patient~~ can wear or carry a medical card, medical jewelry or other appropriate device which ~~designates~~ indicates that said patient ~~the person~~ has a medical condition and that their medical records are accessible 24 hours a day from said system using appropriate communication and retrieval modalities. ~~using a 24 hour telephone communications system.~~

78 (currently amended) The process of claim 77 wherein the ~~unique alpha numerical~~ said patient identifier is used to identify the user and authenticate said

patient and retrieve said records via the—said 24 hour a day telephone communications modalities. system.

79 (currently amended) The process ~~system~~ of claim 47 wherein ~~the—~~said patient can wear or carry a medical card, medical jewelry or other appropriate device which ~~designates—~~indicates that ~~the person~~ said patient has a medical condition, and that their medical records are accessible using ~~their—unique—~~said patient identifier number ~~and the—~~ in conjunction with Internet, or website access.

80 (currently amended) The process of clam 47 wherein ~~the—~~said patient can wear or carry a medical card, medical jewelry or other appropriate device which ~~designates—~~indicates that ~~the person—~~ said patient has a medical condition, and that their medical records are accessible using ~~their—unique—~~said patient identifier number ~~and the—~~ in conjunction with the Internet for routine updating of medical records and other information,

81 (original) The computer system of claim 13 wherein the integration of the physician signature into said digital record is the legal and binding equivalent of a written physician signature.

82 (original). The computer system of claim 13 including a means for updating said medical data, clinical data and said patient data via either said system or remote workstations.

83. (original) The computer system according to claim 13 further comprising means for transferring a medical record, clinical test or patient data from a pre-existing database to the system database.

84 (original). The computer system according to claim 16 wherein said means for transferring a medical record, clinical test or patient data from a pre-existing

database includes means for authenticating each said record, test or patient data prior to transferring the record to the system database.

85 (original) The computer system according to claim 13 wherein original digital medical records, clinical tests, and patient data can be created and stored within said system

86 (original) A computer system for inputting, storing, organizing, authenticating, retrieving medical records, clinical data, and patient data, the system comprising:

means for creating digital medical records, clinical data, and patient data

means for assigning a first password to a system user

means for assigning a first user ID to a system user

means for storing said first user passwords and first user ID's in a database

means for authenticating a user by comparing a second user password and ID used during system login to said first user password and said first ID stored in said database.

87 (original) A computer system for inputting, storing, organizing, authenticating, retrieving medical records, clinical data, and patient data, the system comprising:

means for creating digital medical records, clinical data, and patient data

means for assigning a first user ID from a biometric characteristic

means for storing said first user ID's in a database

means for authenticating a user by comparing a second user ID obtained during system login to the first user ID stored in said database

88 (original) A process for inputting, storing, organizing, authenticating, retrieving medical records, clinical data, and patient data, the process comprising:



creating digital medical records, clinical data, and patient data  
assigning a first password to a system user  
assigning a first user ID to a system user  
storing said first user passwords and first user ID's in a database  
authenticating a user by comparing a second user password and ID used during  
system login to the first user password and ID stored in said database

87 (original) A process for inputting, storing, organizing, authenticating, retrieving  
medical records, clinical data, and patient data, the process comprising:

creating digital medical records, clinical data, and patient data  
assigning a first user ID from a biometric characteristic  
storing said first user ID's in a database  
authenticating a user by comparing a second user ID obtained during system  
login to the first user ID stored in said database